

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001514

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: E21D 20/00, E21D 21/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: E21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4423986 A (B.T. SKOGBERG), 3 January 1984 (03.01.1984)  --	1-14
A	DE 4024869 A1 (MAGYAR ALUMINIUMIPARI TRÖSZT), 14 February 1991 (14.02.1991)  -- -----	1-14

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

28 January 2005

Date of mailing of the international search report

18-02-2005

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Authorized officer

Christer Bäcknert / MRo  
Telephone No. +46 8 782 25 00

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

31/12/2004

International application No.

PCT/SE 2004/001514

US	4423986	A	03/01/1984	AT	10664	T	15/12/1984
				AU	545968	B	08/08/1985
				AU	7505481	A	18/03/1982
				BR	8105714	A	25/05/1982
				CA	1180909	A	15/01/1985
				DE	3167630	D	00/00/0000
				EP	0047727	A,B	17/03/1982
				FI	75400	B,C	29/02/1988
				FI	812763	A	09/03/1982
				IN	153175	A	09/06/1984
				JP	1582190	C	11/10/1990
				JP	2005238	B	01/02/1990
				JP	57077798	A	15/05/1982
				NO	159201	B,C	29/08/1988
				NO	812997	A	09/03/1982
				PL	134505	B	31/08/1985
				PL	232949	A	15/03/1982
				SE	443398	B,C	24/02/1986
				SE	8105344	A	09/03/1982
				ZA	8106176	A	29/09/1982
-----							
DE	4024869	A1	14/02/1991	AT	164590	A	15/05/1995
				AT	400471	B	25/01/1996
				HU	55866	A	28/06/1991
				HU	208357	B	28/09/1993
-----							